## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/27310

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : D21H 21/22			
US CL : 162/100			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 162/100,158,164.4			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap		Relevant to claim No.
Y	US 5,538,595 A (Trokhan et al) 23 July 1996 (23.07.1996), see entire document.		
Y	US 5,573,637 A (Ampulski et al) 12 November 1996 (12.11.1996), see entire document.		1-66
Y	US 5,679,218 A (Vinson et al) 21 October 1997 (21.10.1997), see entire document.		1-66
Y	US 5,846,380 A (Van Phan et al) 08 December 1998 (08.12.1998), see entire document.		1-66
Y	US 6,162,327 A (Batra et al) 19 December 2000 (19.12.2000), see entire document		1-66
Further documents are listed in the continuation of Box C.		See patent family annex.	
Special categories of cited documents:		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the	
"A" document defining the general state of the art which is not considered to be of particular relevance		principle or theory underlying the inve	ention
"E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
		being obvious to a person skilled in th	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the a	ctual completion of the international search	Date of mailing of the international sear	ch report
12 December 2003 (12.12.2003)		<b>22 JAN 2004</b>	
Name and maning address of the 1979 CC		Authorized officer	/
Mail Stop PCT, Attn: ISA/US		Peter Chin	3
Commissioner for Patents P.O. Box 1450			$\rho_{0}$
P.O. Box 1430 Alexandria, Virginia 22313-1450  Telephone No. (703) 308-0651			
Facsimile No. (703)305-3230			